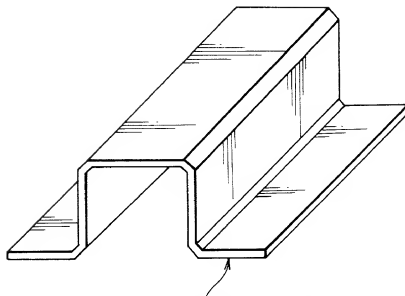


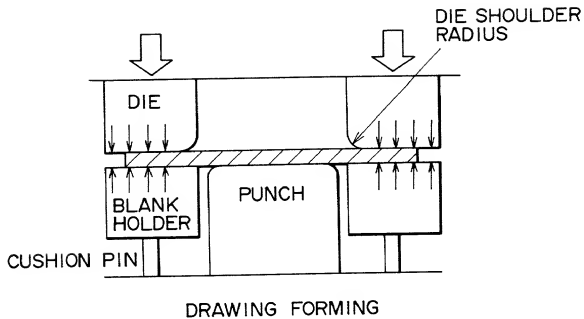
FIG. 1



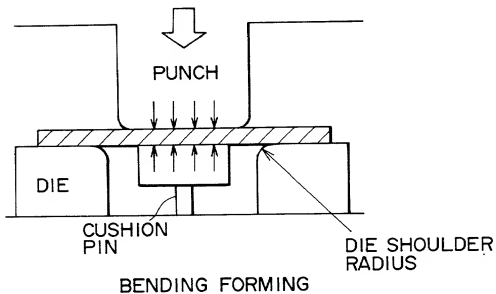
"HAT CHANNEL" SPECIMEN

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F I G . 2A

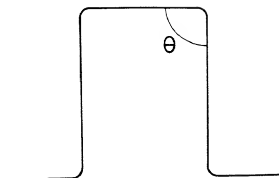


F I G . 2B



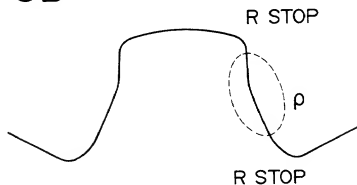
09733905.121200

FIG. 3A



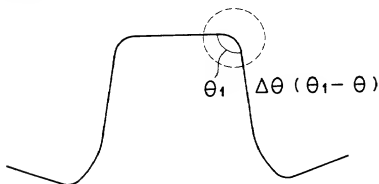
DESIGN (TARGET) SHAPE

FIG. 3B



WALL WARP

FIG. 3C



ANGULAR CHANGE

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FIG. 4A

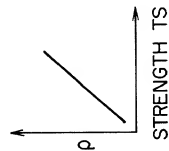


FIG. 4B

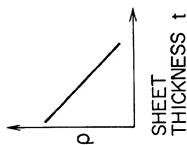


FIG. 4C

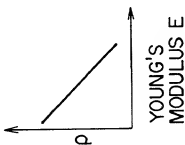


FIG. 4D

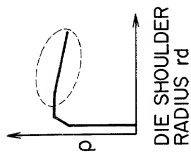


FIG. 4E

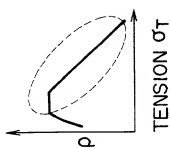


FIG. 5

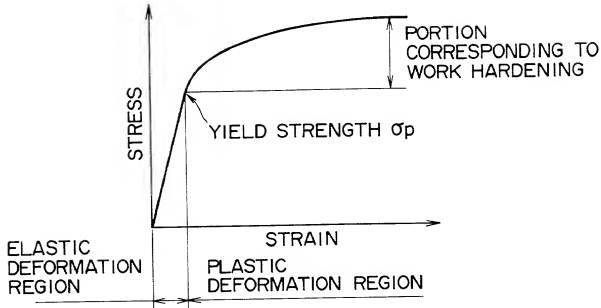
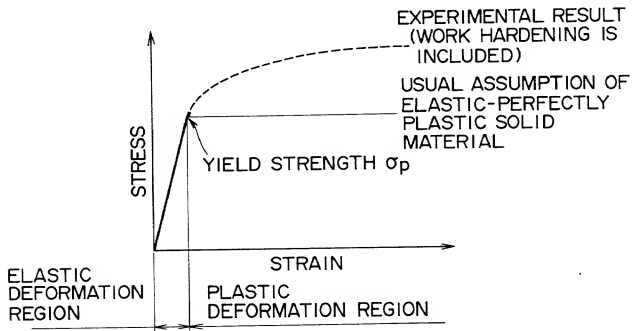


FIG. 6



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FIG. 7C

FIG. 7B

FIG. 7A

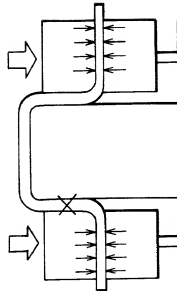
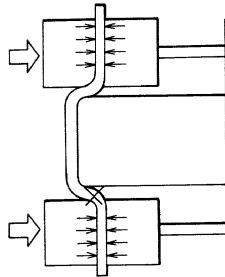
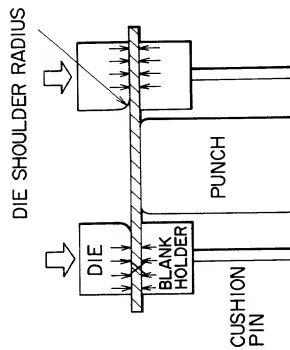


FIG. 8A

FIG. 8B

FIG. 8C

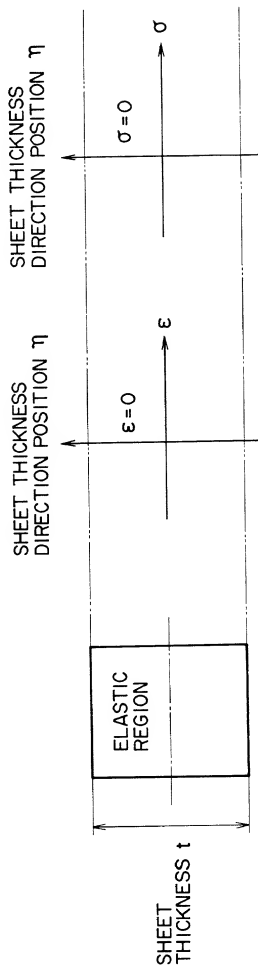


FIG. 9A FIG. 9B FIG. 9C

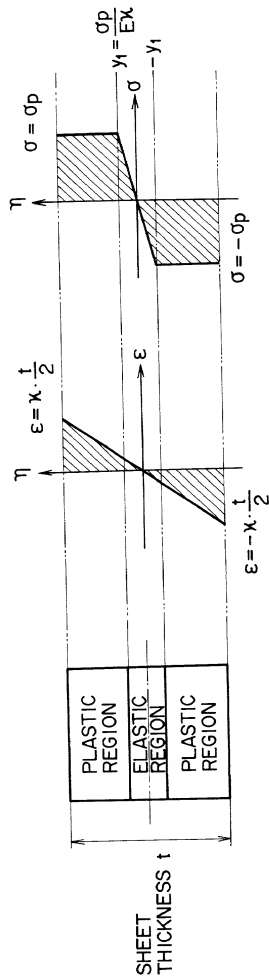


FIG. 10A FIG. 10B FIG. 10C

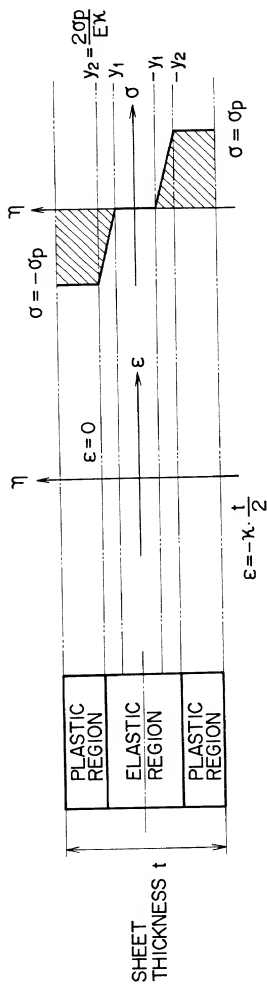
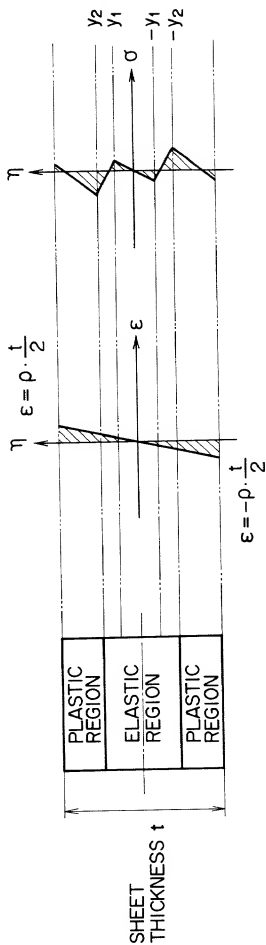
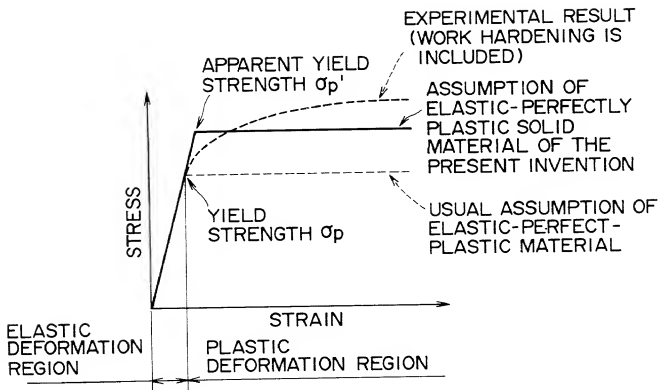


FIG. 11A FIG. 11B FIG. 11C



F I G . 1 2



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FIG. 13A

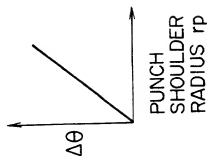


FIG. 13B

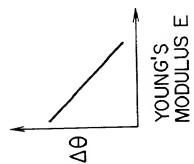


FIG. 13C

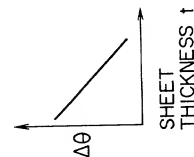


FIG. 13D

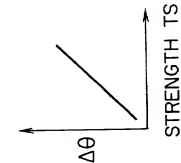


FIG. 14

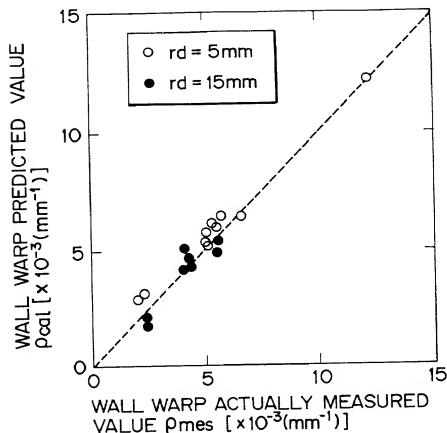
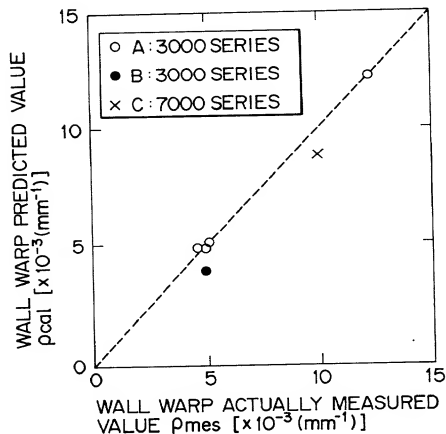


FIG. 15



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FIG. 16

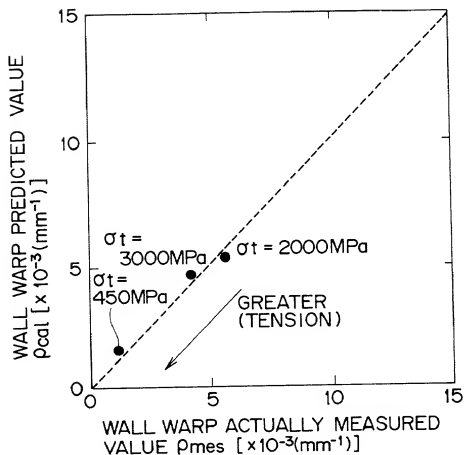


FIG. 17

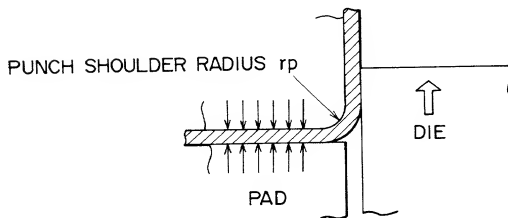


FIG. 18

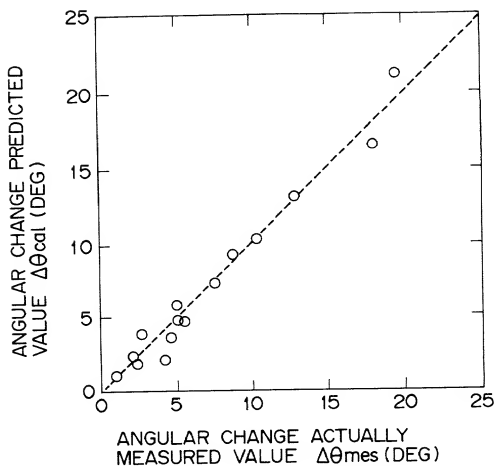
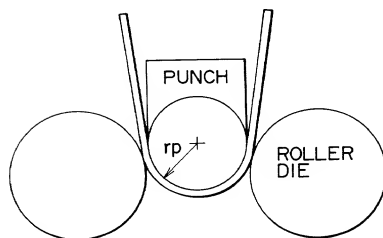


FIG. 19



F I G. 20

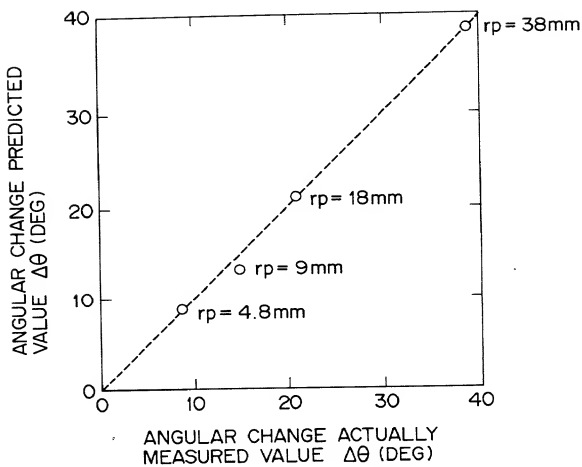


FIG. 21A

INFLUENCE OF STRENGTH

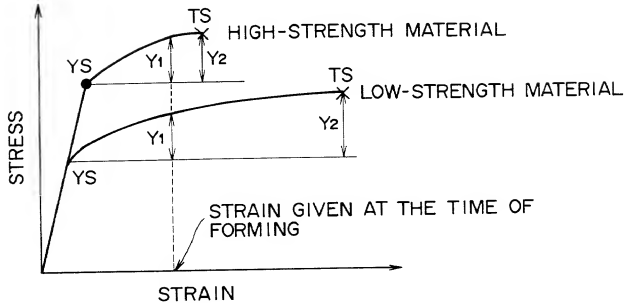
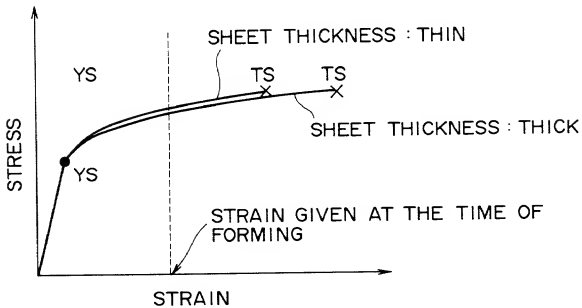


FIG. 21B

INFLUENCE OF SHEET THICKNESS (t)



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